

# Movies\_database\_management\_system

- **Create and use a database**

```
CREATE DATABASE movies;  
USE movies;
```

- **Select all rows from the movies table**

Select \* from movies;

**Output: -**

movie_id	movie_name	Rating	Votes	meta_score	Genre	PG_Rating	Year	Duration	Cast
0	Leave the World Behind	6.5	90000	67	Drama, Mystery, Thriller	R	2023	2h 18m	Julia Roberts, Mahershala Ali, Ethan Hawke, My...
1	Wonka	7.4	24000	66	Adventure, Comedy, Family	PG	2023	1h 56m	Timoth�e Chalamet, Gustave Die, Murray Mc...
2	Poor Things	8.5	6700	86	Comedy, Drama, Romance	R	2023	2h 21m	Emma Stone, Mark Ruffalo, Willem Dafoe, Ramy...
3	Killers of the Flower Moon	7.8	128000	89	Crime, Comedy, Drama, Romance	R	2023	3h 26m	Leonardo DiCaprio, Robert De Niro, Lily Gladsto...
4	May December	7	21000	85	Comedy, Drama	R	2023	1h 57m	Natalie Portman, Chris Tenzis, Charles Melton, J...
5	The Hunger Games: The Ballad of Songbirds & ...	7.1	56000	54	Action, Adventure, Drama	PG-13	2023	2h 37m	Rachel Zegler, Tom Blyth, Viola Davis, Dexter S...

- **Movies released in specific years**

```
select year, count(*) as totalmovies from movies  
group by year  
order by totalmovies desc;
```

**Output:-**

year	totalmovies
2023	191
2022	106
2019	73
2021	69
2017	63
2018	62
2015	60

- **Which movie has the highest rating?**

```
select movie_name, rating from movies  
order by rating desc
```

limit 5;  
**Output:-**



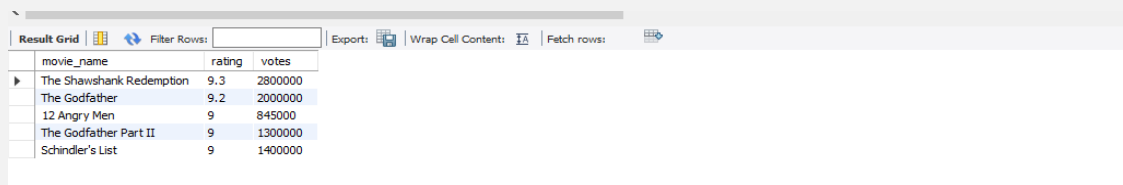
The screenshot shows a database query result grid with the following data:

movie_name	year
Leave the World Behind	2023
Wonka	2023
Poor Things	2023
Killers of the Flower Moon	2023
May December	2023

- **Movies with highest and lowest votes**

```
select movie_name, votes
from movies
order by votes desc
limit 1;
```

**Output:-**



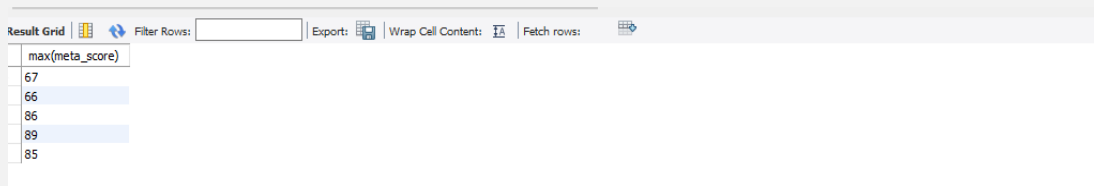
The screenshot shows a database query result grid with the following data:

movie_name	rating	votes
The Shawshank Redemption	9.3	2800000
The Godfather	9.2	2000000
12 Angry Men	9	845000
The Godfather Part II	9	1300000
Schindler's List	9	1400000

- **Highest meta score**

```
select max(meta_score)
from movies;
```

**Output:-**



The screenshot shows a database query result grid with the following data:

max(meta_score)
67
66
86
89
85

- **Average Meta Score for a specific year (2023)**

```
select avg(meta_score) as average_meta_score
from movies
where year = 2023;
```

**Output:-**

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
average_meta_score			
58.5916			

- Count the total number of movies

```
select count(*)
from movies;
```

**Output:-**

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
count(*)			
1827			

- Find directors who have directed more than 1 movie

```
select director, count(director) as count
from movies
group by director
having count(director) > 1;
```

**Output:-**

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
director	count		
Paul King	3		
Yorgos Lanthimos	4		
Martin Scorsese	15		
Todd Haynes	3		
Francis Lawrence	7		
Ridley Scott	18		
Christopher Nolan	11		

- Find movies that appear more than once

```
select movie_name, count(movie_name) as count
from movies
group by movie_name
having count(movie_name) > 1;
```

**Output:-**

movie_name	count		
Dune	2		
A Christmas Carol	2		
Godzilla	2		
Little Women	2		
Beauty and the Beast	2		
The Little Mermaid	2		
Vacation	2		

- Find movies with the same name, year, and director

**Output:-**

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

movie_name	year	director	count(*)
------------	------	----------	----------

- ### Output:-

Result Grid		Filter Rows:	Export:	Wrap Cell Content: <a href="#">F6</a>
	movie_name	rating	votes	
▶	The Shawshank Redemption	9.3	2800000	
	The Godfather	9.2	2000000	
	The Dark Knight	9	2800000	
	Schindler's List	9	1400000	
	The Lord of the Rings: The Return of the King	9	1900000	
	12 Angry Men	9	845000	
	The Godfather Part II	9	1300000	

- Output:-**

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

movie_name	cast	year
Killers of the Flower Moon	Leonardo DiCaprio, Robert De Niro, Lily Gladstone...	2023
The Wolf of Wall Street	Leonardo DiCaprio, Jonah Hill, Margot Robbie, ...	2013
Once Upon a Time in Hollywood	Leonardo DiCaprio, Brad Pitt, Margot Robbie, E...	2019
Inception	Leonardo DiCaprio, Joseph Gordon-Levitt, Elliot ...	2010
Titanic	Leonardo DiCaprio, Kate Winslet, Billy Zane, Kat...	1997
Django Unchained	Jamie Foxx, Christoph Waltz, Leonardo DiCaprio...	2012
The Revenant	Leonardo DiCaprio, Matt Damon, ...	2015

- ```
select movie_name, rating, pg_rating
```

```

from movies
where pg_rating in ('pg', 'pg-13')
order by rating desc;

```

### Output:-

| pg_rating | movie_count |
|-----------|-------------|
| R         | 809         |
| PG        | 265         |
| PG-13     | 603         |
| TV-PG     | 5           |
| NA        | 43          |
| G         | 41          |
| TV-Y7     | 2           |

- **Movies grouped by genre**

```

select genre, count(*) as movie_count
from movies
group by genre
order by movie_count desc;

```

### Output:-

| genre                        | movie_count |
|------------------------------|-------------|
| Action, Adventure, Sci-Fi    | 92          |
| Comedy                       | 64          |
| Comedy, Drama, Romance       | 59          |
| Drama                        | 56          |
| Animation, Adventure, Comedy | 52          |
| Action, Adventure, Fantasy   | 51          |
| Action, Adventure, Comedy    | 47          |

- **Total votes for 2023 movies**

```

select sum(votes) as total_votes
from movies
where year = 2023;

```

### Output:-

| total_votes |
|-------------|
| 8817274     |

- **Movies with the longest and shortest durations**

```

select movie_name, duration
from movies
order by duration desc

```

limit 1;

### Output:-

| Result Grid   |          | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows: |
|---------------|----------|--------------|---------|--------------------|-------------|
| movie_name    | duration |              |         |                    |             |
| Occupied City | 4h 6m    |              |         |                    |             |

- Movies with 'R' rating**

```
select count(*) as r Rated_movies
from movies
where pg_rating = 'r';
```

### Output:-

| Result Grid    |  | Filter Rows: | Export: | Wrap Cell Content: |
|----------------|--|--------------|---------|--------------------|
| r Rated_movies |  |              |         |                    |
| 0              |  |              |         |                    |

- Movies where the rating is higher than a specific value**

```
select movie_name, rating
from movies
where rating > 8
order by rating desc;
```

### Output:-

| Result Grid                                   |        | Filter Rows: | Export: | Wrap Cell Content: |
|-----------------------------------------------|--------|--------------|---------|--------------------|
| movie_name                                    | rating |              |         |                    |
| The Shawshank Redemption                      | 9.3    |              |         |                    |
| The Godfather                                 | 9.2    |              |         |                    |
| The Dark Knight                               | 9      |              |         |                    |
| Schindler's List                              | 9      |              |         |                    |
| The Lord of the Rings: The Return of the King | 9      |              |         |                    |
| 12 Angry Men                                  | 9      |              |         |                    |
| The Godfather Part II                         | 9      |              |         |                    |

- Movies with a specific genre**

```
select movie_name, genre, rating
from movies
where genre like '%action%' and genre like '%adventure%'
order by rating desc;
```

### Output:-

| movie_name                                        | genre                        | rating |
|---------------------------------------------------|------------------------------|--------|
| The Lord of the Rings: The Return of the King     | Action, Adventure, Drama     | 9      |
| The Lord of the Rings: The Fellowship of the Ring | Action, Adventure, Drama     | 8.8    |
| Inception                                         | Action, Adventure, Sci-Fi    | 8.8    |
| The Lord of the Rings: The Two Towers             | Action, Adventure, Drama     | 8.8    |
| Star Wars: Episode V - The Empire Strikes Back    | Action, Adventure, Fantasy   | 8.7    |
| Spider-Man: Across the Spider-Verse               | Animation, Action, Adventure | 8.6    |
| Star Wars: Episode IV - A New Hope                | Action, Adventure, Fantasy   | 8.6    |

- Movies in a specific duration range**

```
select movie_name, duration
from movies
where duration like '% 3h 00m%'
order by duration desc;
```

### Output:-

| movie_name | duration |
|------------|----------|
|------------|----------|

- Movies released within a specific year range (2000-2023)**

```
select movie_name, year, rating
from movies
where year between 2000 and 2023
order by year desc;
```

### Output:-

| movie_name                                         | year | rating |
|----------------------------------------------------|------|--------|
| Leave the World Behind                             | 2023 | 6.5    |
| Wonka                                              | 2023 | 7.4    |
| Poor Things                                        | 2023 | 8.5    |
| Killers of the Flower Moon                         | 2023 | 7.8    |
| May December                                       | 2023 | 7      |
| The Hunger Games: The Ballad of Songbirds & Snakes | 2023 | 7.1    |
| Napoleon                                           | 2023 | 6.6    |

- Count the total number of movies in the database**

```
select count(*) from movies;
```

### Output:-

| count(*) |
|----------|
| 1827     |